DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
TRUSTED COMPUTING BASE CONFIGURATION MANAGEMENT PLAN	DI-CMAN-81343

3. DESCRIPTION/PURPOSE

3.1 The Trusted Computing Base (TCB) Configuration Management (CM) Plan details the TCB configuration control process, configuration management procedures, and review and approval procedures for changes to the security design implementation of the TCB. It addresses hardware, firmware, software, testing and documentation at the various levels of

(Continued on Page 2)

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
930702	G/C71		

7. APPLICATION/INTERRELATIONSHIP

7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated under the work task described by 3.2.3.2.3, 4.1.3.2.3, 4.1.3.2.4 of DOD-5200.28 STD, Department of Defense Trusted Computer System Evaluation Criteria.

7.2 This DID is applicable to any computer acquisition that calls for a TCB Configuration Management Plan as specified by DoD 5200.28-STD, Department of Defense Trusted Computer System Evaluation Criteria (TCSEC) for TCB Classes B2 (Structured Protection), and above, products and their equivalent systems.

(Continued on Page 2)

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
		G6933

10. PREPARATION INSTRUCTIONS

10.1 Source Document. The applicable issue of the documents cited herein, including their approval date, and dates of any applicable amendments and revisions shall be reflected in the contract.

10.2 Format. Document a TCB Configuration Management Plan as follows:

a. Cover Sheet. Shall contain Title, Contract Number, Procuring Activity, Contractor Identification, Acquisition Program Name, disclaimers (as provided by the procuring activity contracting officer), date, version number, security classification, and any other appropriate descriptive data.

b. Errata Sheet. Shall contain delimiting cumulative page changes from previous versions.

c. Table of Contents. Shall contain paragraph numbers, paragraph names, and page numbers.

d. List of illustrations, diagrams, charts, and figures.

e. Glossary of abbreviations, acronyms, terms, symbols, and notation used, and their definitions.

f. Executive Summary, not to exceed two pages.

(Continued on Page 2)

11. DISTRIBUTION STATEMENT

Distribution Statement A: This DID is approved for public release. Distribution is unlimited.

Block 3, DESCRIPTION/PURPOSE (Continued)

trust. The TCB CM Plan indicates how the security requirements baseline will be maintained during the operational life of the TCB and provides assurance that the security protections are safe from the introduction of improper hardware, firmware, and software during the developmental and operational life of the TCB.

Block 7,APPLICATION/INTERRELATIONSHIP (Continued)

7.3 The information required by 10.3 is required for all class products and their equivalent systems applicable to the DID as a whole. In addition, the information required in 10.3.1 and 10.3.2 is necessary for various classes of products and their equivalent systems.

Block 10, PREPARATION INSTRUCTIONS (Continued)

g. Introduction.
h. Body of the Plan.
i. Attachments.
j. Appendices.
k. Bibliography. List reference sources and applicable documents.
l. Subjective index.

10.2.1 Specific format instructions.

a Abbreviations and acronyms shall be defined when first used in the text and shall be placed in the glossary.
b. Pages shall be numbered separately and consecutively using Arabic numerals. Blank pages shall be numbered.
c. Paragraphs shall have a short descriptive title and shall be numbered consecutively using Arabic numerals. Numbering schemes beyond the fourth level (e.g., 4.1.2.5.8) are not permitted.
d. Chapters shall begin on an odd-numbered (right hand) page.
e. Column headings shall be repeated on subsequent pages if tabular material exceeds one page.
f. Fold out pages shall be kept to a minimum.
g. Paper shall be standard 8 1/2 x 11 inches, white, with black type. Standard 10 pitch pica or courier, 12 pitch elite, or equivalent font shall be used. Either blocked text (left and right justified) or ragged right (left justified only) shall be used.
h. At least one inch margins shall be provided all around to allow for drilling and binding.
i. Either single- or double-sided printing shall be used. If double-sided, the document shall be printed or typed head-to-head, front-to-back.
j. The plan shall be provided in standard 3 - ring binders for ease of maintenance.

10.3 Content. The TCB CM Plan shall contain the following items:

a. Description of the methods available to certify that only the approved, intended changes are made in the code that will be used as the new version of the TCB.
b. Identification of methods that ensure that any change in the approved design documentation is developed under configuration control.

Block 10, PREPARATION INSTRUCTIONS (Continued)

c. Description of how the configuration management system ensures consistent mapping among all documentation and code associated with the current version of the TCB.

d. Description of the auditing methods which will be used by the configuration management system to maintain a history of all changes made to the TCB.

e. Description of the tools that are provided for generation of a new version of the TCB from source code.

f. Description of the tools that are provided for comparing a newly generated version with the previous TCB version in order to ascertain that only the intended changes have been made in the code that will actually be used as the new version of the TCB.

10.3.1 Classes B2 and B3 products and their equivalent systems. The following shall be included in this section:

a. Description of the tools that ensure that only approved changes are made over the life cycle. These tools should provide for comparing a newly generated version of the TCB with the previous TCB version, and include the steps to be taken if the comparison indicates non-approved changes to the TCB.

b. Description of the configuration controls in place, during the development and maintenance of the TCB, to maintain changes to the descriptive top-level specification, other design data, implementation documentation, source code, and running versions of the object code, and test fixtures and documentation.

10.3.2 Class A1 products and their equivalent systems.. The following shall be included in this section:

a. Description of the tools, maintained under strict configuration control, for comparing a newly generated version with the previous TCB version in order to ascertain that only the intended changes have been made in the code that will actually be used as the new version of the TCB.

b. Description of the procedures in place, during the design, development and maintenance of the TCB, to maintain changes to all security relevant hardware, firmware, and software. These procedures should maintain control of changes to the formal model, the descriptive and formal top-level specifications, other design data, implementation documentation, source language, and running versions of the object code, and test fixtures and documentation.

c. Description of the technical, physical, and procedural safeguards which are used to protect from unauthorized modification or destruction of the master copy or copies of all material used to generate the TCB.

d. Description of the procedures for assuring that the TCB software, firmware, and hardware updates distributed are exactly as specified by the master copies.

e. Description of the procedures to maintain any configuration management tools under strict configuration control.